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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/669,529	09/25/2003	Yoshihisa Kiyotoki		5149
24956 7590 09/10/2004			EXAMINER	
MATTINGL 1800 DIAGON	Y, STANGER & MAI	KEASEL	, ERIC S	
SUITE 370 ALEXANDRIA, VA 22314			ART UNIT	PAPER NUMBER
			3754	

DATE MAILED: 09/10/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	10/669,529	KIYOTOKI ET AL.			
Office Action Summary	Examiner	Art Unit			
	Eric Keasel	3754			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period w.  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) day ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on <u>07 Ju</u>	ıly 2004.				
	action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4) Claim(s) 7-13 and 16-26 is/are pending in the application.  4a) Of the above claim(s) is/are withdrawn from consideration.  5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>7-13 and 16-26</u> is/are rejected. 7)□ Claim(s) is/are objected to. 8)□ Claim(s) are subject to restriction and/or	election requirement.				
Application Papers					
9) The specification is objected to by the Examiner 10) The drawing(s) filed on 25 September 2003 is/a Applicant may not request that any objection to the of Replacement drawing sheet(s) including the correction of the oath or declaration is objected to by the Examiner	re: a)⊠ accepted or b)⊡ object drawing(s) be held in abeyance. See on is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
12) △ Acknowledgment is made of a claim for foreign  a) △ All b) ☐ Some * c) ☐ None of:  1. ☐ Certified copies of the priority documents  2. △ Certified copies of the priority documents  3. ☐ Copies of the certified copies of the priority documents	s have been received. s have been received in Application ity documents have been receive	on No. <u>10/083,355</u> .			
application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.					
Attachment(s)					
<ol> <li>Notice of References Cited (PTO-892)</li> <li>Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)         Paper No(s)/Mail Date 9/25/2003.     </li> </ol>	4) Interview Summary ( Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:	(PTO-413) te atent Application (PTO-152)			

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## **DETAILED ACTION**

1. The restriction requirement is withdrawn. All claims are examined below.

## **Double Patenting**

2. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

3. Claims 7-13 and 16-26 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-30 of U.S. Patent No. 6,672,330 in view of Matsui et al. (US Patent Number 4,648,308). Claims 1-30 of U.S. Patent No. 6,672,330 disclose all the limitations of claims 7-13 and 16-26 of the present application except for the insert metal layer used with the diffusion bonding. Matsui et al. disclose the use of a metal insert layer in a similar device that is made by diffusion bonding. It would have been obvious to one having ordinary skill in the art at the time the invention was made to have used the metal insert layer of Matsui et al. with claims 1-30 of U.S. Patent No. 6,672,330 in order to improve mechanical characteristics, such as bonding strength, fatigue strength, and high temperature strength as taught by Matsui et al. (see column 4, lines 54-61).

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4. Claims 7-13 and 16-26 are provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 14-25 of copending Application No. 10/270,515. Claims 14-25 of copending Application No. 10/270,515 disclose the limitations set forth in claims 7-13 and 16-26 of the present application.

This is a <u>provisional</u> obviousness-type double patenting rejection.

## Conclusion

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Eric Keasel whose telephone number is (703) 308-6260. The examiner can normally be reached on Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gene Mancene can be reached on (703) 308-2696. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Cric Keasel

Lui Reasel 75EP2004

Patent Examiner
Art Unit 3754